

WHAT IS CLAIMED IS:

1. An engine cooling system, comprising:

a coolant inlet formed at one side of a cylinder block for allowing coolant to separately flow into said cylinder block and a cylinder head; and

5 a coolant outlet formed at an opposite side of said cylinder head for allowing the coolant having flowed along said cylinder block and said cylinder head to separately flow out of said cylinder block and said cylinder head, said coolant outlet being diagonally opposite to the coolant inlet.

10 2. The system as set forth in claim 1, wherein the coolant introduced through said coolant inlet is discharged through said coolant outlet along different flow channels formed in said cylinder block and said cylinder head, respectively, without mixing in said cylinder block and said cylinder head.

15 3. The system as set forth in claim 2, wherein said coolant inlet comprises:

a first inlet hole communicating with a water jacket formed in said cylinder block; and

a second inlet hole communicating with another water jacket formed in said cylinder head.

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4. The system as set forth in claim 3, wherein the center of said first inlet hole is formed at a central axis of a first cylinder liner of said cylinder block.

5. The system as set forth in claim 3, wherein said cylinder block has a first
25 intermediate outlet hole communicating with said second inlet hole, and wherein said cylinder head has a first intermediate inlet hole communicating with said first intermediate

outlet hole.

6. The system as set forth in claim 1, wherein said cylinder block has a second intermediate outlet hole for allowing the coolant to flow to said cylinder head therethrough, said second intermediate outlet hole being diagonally opposite to said coolant inlet, and wherein said cylinder head has a second intermediate inlet hole communicating with said second intermediate outlet hole of said cylinder block.

7. The system as set forth in claim 6, wherein said second intermediate inlet hole does not communicate with said water jacket formed in said cylinder head.

8. The system as set forth in claim 1, wherein said coolant outlet comprises:

a first outlet hole for allowing the coolant discharged from said water jacket of said cylinder block to flow therethrough; and

a second inlet hole for allowing the coolant discharged from said water jacket of said cylinder head to flow therethrough.

9. The system as set forth in claim 1, wherein said coolant inlet is disposed closer to the rear of a car body in an engine compartment and said coolant outlet is disposed closer to the front of the car body in the engine compartment.